## **Abstract**

An optical fiber has a fiber core with a higher refractive index and a cladding surrounding the core with a lower refractive index. The fiber core is made of a multi-component oxide glass composition which consists of a glass-forming component and two Raman-active components. The glass former is SiO<sub>2</sub> and the Raman active components are of Li<sub>2</sub>O and Nb<sub>2</sub>O<sub>5</sub>. The concentration of the glass former is between 30 and 90 mol% and of the Raman active components is up to 50 mol% in total. The composition may further include a glass-modifying component of alkaline such as Li<sub>2</sub>O, Na<sub>2</sub>O, K<sub>2</sub>O, Rb<sub>2</sub>O, Cs<sub>2</sub>O or earth-alkaline such as BeO, MgO, CaO, SrO, BaO in a concentration of up to 40 mol%.